





IN THE UNDERDOOD ATES PATENT AND TRADEMARK OFFICE

Applicant:

John A. Lust et al.

Examiner: Unknown

Serial No.:

09/730,374

Group Art Unit: Unknown

Filed:

December 5, 2000

Docket: 150.188US2

Title:

USE OF GENETICALLY ENGINEERED ANTIBODIES TO CD38 TO TREAT

MULTIPLE MYELOMA

COMMUNICATION RE: CORRECTED APPLICATION PAPERS

Box Missing Parts Commissioner for Patents Washington, D.C. 20231

In response to the "Notice to File Corrected Application Papers" (see enclosed copy). Enclosed are 11 sheets of formal drawings for the above-identified application.

Applicants assume the application is now in proper order and in condition for examination. Please direct any inquiries to the undersigned attorney at (612) 373-6959.

If necessary, please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

Respectfully submitted,

JOHN A. LUST ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

P.O. Box 2938

Minneapolis, MN 55402

(612) 373-6959

Date My 7, 7001

Janet E. Empretson

Reg. No. 39,665

JEE:CMG:jms

<u>CERTIFICATE UNDER 37 CFR 1.8:</u> The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Attn: Box Missing Parts, Commissioner for Patents, Washington, D.C. 20231, on this <u>7 h</u> day of <u>May</u>, 2001.

Name III Schran/C

Signature

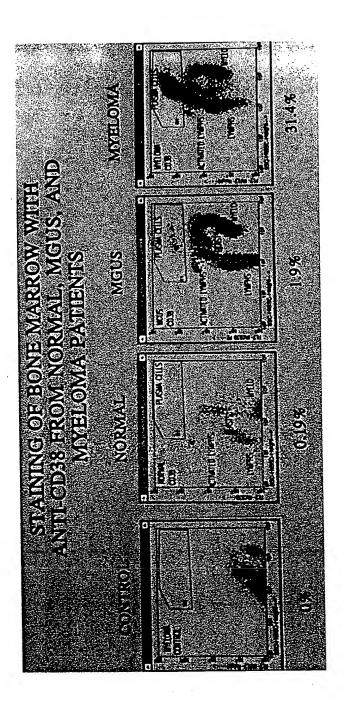


FIG. 1

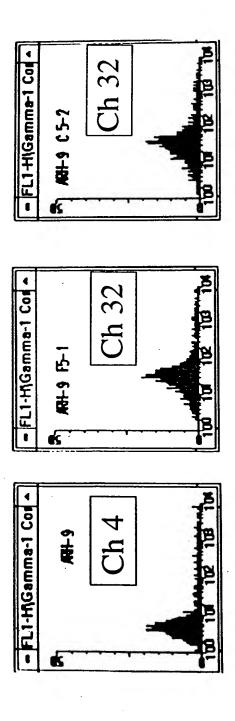


FIG. 2

FIG. 3

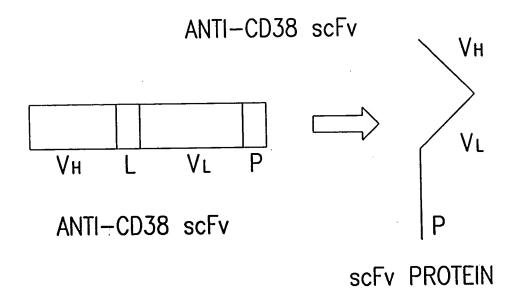


FIG. 4

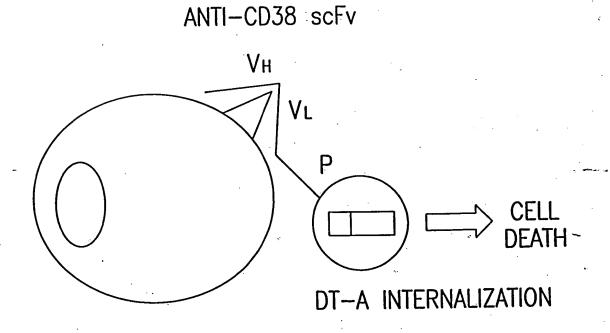


FIG. 5

1 1 1

ഗ

ri Fi × 0 >

ᄓᇲᄓ

s > °

щ ^{го}

a o ∢

z ^E

H *

> ° °

o H

T A A F S A A A

u w #

									09		ı	1	1									120	,
			BAC 8 CBC	TVSTV	rgciiasabaiaiaIaIspswloisiAcnAIsu9a015I9IIII4ttslosi	Yekred	77777		77947516	cegggteggacggTACCGGTTCCAGGTCGACGTCCTCAGTCCTGGATCGGATCACGTCGG	A	a d	ດ ຜ ຜ			щ		ស អ		н Н	/ CTCATTAATTAGTTATGGTGT	+ 1 1 1 1 1 1 1 1 1	GAGTGTCGCGGACAGGTATTGGACGTGTCAGAGACCAAAGAGTAATTAAT
ഗ	Ø	Φ	ω ;	SB6SS	114C1	18/Y	.,,,,,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	# - + -	GGAT	υ Ω	ı.	*								TAGT.	+-	ATCA
		ഗ	ه . ن	Busy	נועו	abad	7777	ر م ا	5 T T T	GATC	*	ഗ	i A	[·	Ø	വ	CM5V	ງ ສ0 ສ	ee9p	IIII	/ TAAT		AATTA
ជា	U		PaAO s	avlPp	Jaols	51961 11741	, , , ,	\ \ \ \	HGGAC TITE	rccre	E-	ליז	À				່ປົ	Ĵ	ð	Ĥ	CTCA		GAGT
			gl Pa	oaPw	AIsu	IITI	V111.	/ di	AGTCAG	TCAG	>	ູ	ω Q								ተተተታ	1 1 1 1 1 1	CAAA
		Ė	Cs Hgl	indys	SIACD	RIOT	YITIII VIIIII	///	SCAGG.	CGTCC	ď	α	었			A B	ر ا	æ æ	N A	H H	رىلىرىلىر	, , , , , , , ,	GAGAC
			BC	MAsvi	wlois	OUFJ.	IIII	/ / !	GTCCAGCTGCAG	TCGA	A	<u>н</u>	လ			Щ	Ø	Ω	Σ	н	בטפט		IGTCA
		H	aAa B	veMsM	alsps	IIcgb	IIII	//		CCAGG	ם	5	ഗ	-		ບ	>	٠d	ద	н	יטנים: מינים:		GACGI
		Ħ	CBG al	sBavvsDEBEvsdHeveMsMMAsvBvpNioaPvuvlP	aial	GIEL	TITI		ggcccagccggccATGGCCAAGGTCCAGCTGCAGGAGTCAGGA	gccggTACCGGTT	c	x K	ᅜ	.•							上から上し上がないないが出かりなる。 イン・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	14000	rattg
			-	DEBEV	sabai	aeved	IIIII	<u> </u>	CATG	gTACC	5	Σ	×				MB	ns	Ja	HH	/ /	7715	CAGG
		-	CCCB	avvsl	ciia	8000	TITIT	_	ာင်ရှိသ	igacg.	כ	, «	ద	-		H	BBHICaMB	bshwjens	vgaNeI	IIIIII	//	יפרני	SCGGA
			ф	SB	អ	F	II		cċago	ggtcg		[™] O	လ				MBE			H	j	ACAG	TGTCC
		S	U	uve	9iI	6JI	III	_				, ⊲	<u>с</u>								į		-
									1	⊣												į	70

							180		i	1 1				
		a E		J m		/ ACACTGGGTTCGCCAGTCTCCAGGAAAGGGTCTGGAGTGGCTGGGAGTGATATGGAGAGG	180	TGTGACCCAAGCGGTCAGAGGTCCTTTCCCAGACCTCACCGACCCTCACTATACCTCTC	E E E) -		s a	8S f
	U U	>	ข -ส	다 면	н	GAGTGGCT		CTCACCGA	>	Σ Σ			Ħ	H
		ф	ω	٦	н	SAAAGGGTCTG		TTTCCCAGAC	ິດ ອີ	7 C C L	>	 Z	D D	, aBs
Ħ	c BS	0 80	R mr	I AF	III	/ GTCTCCAGO	+	CAGAGGTC	S .	ა . ო .	X I		CB	VSTAV
	មួ		41	i rPR r	I III I	/ CTGGGTTCGCCA		GACCCAAGCGGT	Д,	α γ γ γ γ γ	о Н Н			,
	Þ	д	α D	U	н	\.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		TGI	Ħ	## E	∺			
							121							

ACCTTCGTGTCTGATGTTACGTCGAAAGTACAGGTCTGACTCGTAGTGGTTCCTGTTGAG TGGAAGCACAGACTACAATGCAGCTTTCATGTCCAGACTGAGCATCACCAAGGACAACTC 181

pd n he 4 II I

Ibp Ivg III

iosli RFeuJ IIIII Ö ഗ 闰 Σ α Σ ۲ 臼 Ö

0 0 8 111	0 8 111
T S P R I I TGACACTGCCATATACTT++ ACTGTGACGGTATATGAA * H C H I L D T A I Y F T L P Y T S	S WB Pa WHISDSU apaash9 INIJIAA6 IIVIIII / / / GGACCAC+ CCTGGTG D H T T G P R
C C C C V A AV i C li R B UJ I I I I I I I I I I I I I I I I I I	B C B UBVSelS c i B UBVSelS c i B UBVSelS c i GJ I I I IIIIIVI I I I/// CTGTGCCAAAACCTTGATTACGACGGCTATGCTATGGACTACTGGGGCCAAGGCCAAGGCTATTGGACTAATGCTGCCGATACGTTACGATTACGATTACGATTACGATACCTGATGACCCGGTTC C A K T L I T G Y A M D Y W G Q G V P K P * L R R A M L W T T G A K V P K P * L R R A M L W T T G A K
CAAGAGCCAAGTTTTCTTTAAAATGA CAAGAGCCAAGTTTTCTTTAAAATGA CTTCTCGGTTCAAAAGAAATTTTACT C E P S F L * N E K S Q V F F K M N R A K F S L K *	AAACCTTGATTACGAC -++ TTTGGAACTAATGCTG N L D Y D T L D Y D T L I T T
C CAAGAGCCZ CAAGAGCCCZ CAAGAGCCZ CAAGAGCCCZ CAAGAGCCCZ CAAGAGCCCZ CAAGAGCCCZ CAAGAGCCCZ CAAGAGCCCAAGACCCAACACCACACACACACACACACA	CTGTGCCAU 301 GACACGGT L C Q C A K

, ,) 		1 1 1 1
		B BHHash Bs M s B HHash cm n m f p ann141 ch l i i i i iiiii / ///	TGTCTCAGTG Q S H R V T T E S P
A c i i i i i i i i i i i i i i i i i i	AGACCGCC W R I S G G L A V	E H F D A I I I	GATCCTC R R L G D
ор чон Овесу	1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Beath Di	AGA(
M w o I	COTCA R R B C	M T I CTGTA	AGACATA C I S V S
AE cc ii II	0	ŢŢŢŢ	AAAA H H B S
MM nw lo ii	CCAAGIC F R G S G	ICCICC	AGGAGGA L L S S F
M M M N L L L L L L L L L L L L L L L L	CTCCGC	BBBCAN	AGAGGTZ S I S P S
BBS BBS ssuDM mm3dn AB6el IIIII ////	CCAGTGGCAGGGGGCCCCCCCCCCCCCCCCCCCCCCCCC	。	GTGAGTC T S V
B B B F F I	7 P P P P P P P P P P P P P P P P P P P	нарн Е	TAGE I
BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	CCAGTG G H V T S P	H i A T Ava n l a lin 4 w q uJI I I I I III	CCTGTA CCTGTA G H D I
	361		421

								540		1 1 1								009
臼	O Q	0	묘	H H	П		CAGAAACC	GTCTTTGG		. О В Ж Б Ч	3	Z		ત ા	H ;	>		GITCCITC
Œ	CcS	Voc	iRr	JIF	III	_	AGCCTGGTATCAG	+	•		н Э		<u>መ</u>	44 ·	ਮ । ਜ	Н	-	TTTGGAAACTGGG
							TATAATCGGTT	ATATTAGCCAA		* S S Y X X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y		U	g >	თ -പ	ద	н		rggtgcaaccag
			-				CATTACTTGCAAGGCAAGTGAGGACATATATATCGGTTAGCCTGGTATCAGCAGAAACC	GTAATGAACGTTCCGTTCACTCCTGTATATTAGCCAATCGGACCATAGTCGTCTTTGG		* * ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	ਮ ਮ ਮ >	ŭ	×	· ю	م ه	н		AGGAAATGCTCCTAGGCTCTTAATATCTGGTGCAACCAGTTTGGAAACTGGGGTTCCTTC
		Σ	: =	: -	. ⊢	4	AAGG	TTCC		დ ≪ ,	x	B	vBsS	rfat	IaJy	TIII	_	CCTA
	บ	>	→ -⊏	4 Δ	4 ⊢	4	racttgc2	ATGAACGI		K L O	ч	**		п	1-1	•		AAATGCT(
		Ф	4 -	4 () -		CAT	481 GTA		H H	ч							AGG

TCCTTTACGAGGATCCGAGAATTATAGACCACGTTGGTCAAACCTTTGACCCCAAGGAAG Q F G N W r U

	V		1 1 1		720
	CTTCAGAC	CTAATGTGAGAGTCGTAATGGTCAGAAGTCTG	5 S D L A H R L L	A V V I I	1 1 1
	AGT	TCA	ω >	BM SD 11 11 /	: t
മെ	H L	ATGO	χ H H	ж в в н в в д О	
æ qg oq	BH II /AC	GTA	H H) [} 1
do do do E	e7 II / CTCAG	GAGTC	O S R	TRSD SCA SCA III III //	
	CACT	GTGA	# H	7-1-7-2-0)
	GATTA	-+- CTAAT	j r D Y I H	О-П Ф С Б) (
КH	w I GGAAAG	CCTTTC	ж ж ж	а Н н с р н н а	10101
ក្ខេក	H HCT	CACCTAGACCT	ω H	дооисн <u></u>) 5 .
S Ba T suDs t3pp	YANR IIII / /	CCI	n D	·	411
Hωα	R I GGCAGJ	CCGTCZ	7 0 W	донн к Едонн к С	פרדשר. פרדשר
H iT nf	fi R YADR w e7 sI r II I III I /////AGATTCAGTGGATCTGGAAAGGATTACACTCTCAGCATTACCAGTCTTCAGAC	601	K I Q W R F S C D S V	E H W C i D M B O n C RSb a BM V O 5 C j SCa e Sn a a I 7 I e aaC I 11 I I I I I I I I I I I I I I I I I	TOTAGRAGIT.
		_			

ACTICIACAACGAIGAAIAAIGACAGIIGICAIAACCICAIGAGGAIGCAAGCCACCICC

```
Na C B B C BB G

lu c Av s s ASEVASSEGENTT

a9 j li m c coaicioailoaa

I6 e uJ F G iFeJiEFgIItuu

VI I II I I IIIIIIIIIIIII

/ //////
GACCAAGCTGGAATCAAACGGGCGCGC

721 -----+ 750

CTGGTTCGACTTTAGTTTGCCCGCGCG

D Q A G N Q T G G R -

T K L E I K R A A -

P S W K S N G R P -
```